

# Trapezoid Shade


Overview


ACOUSTIC COLLECTION





## Specifications


SHADES	9mm thick Sola Felt is a PET material, manufactured with 50% post-consumer recycled content. Sola Felt is a LBC Red List Free labeled product, eligible for LEED, Living Building Challenge, and other green building certification credits.		HARDWARE	TGIC-free powder coat. Stainless steel cable with nickel-plated cable gripper allows for adjustable hanging height. Made with RoHS compliant parts.
LIGHTING	<p>LED module with single light emitting source, thermally managed to provide optimal performance. Specifiable in 2700K–4000K in CRI &gt;80 or CRI &gt;90, color accuracy within 3 SDCM. Also available in dim-to-warm.</p> <p>PoE or PoE+ compatible (depending on required output): Integrates with Power over Ethernet lighting systems through standard, low voltage wires. See wattage table on page 3 for PoE or PoE+ compatibility.</p> <p>E26 globe lamp models also available: Sizes XS &amp; S: Source lumens 500, delivered lumens approx 415, 90 CRI, nominal lifetime 25,000 hours. Sizes M, L &amp; XL: Source lumens 950, delivered lumens approx 788, 80 CRI, nominal lifetime 15,000 hours.</p>		MOUNTING	Canopy mounts to 4" octagonal junction box or appropriate alternative
			ELECTRICAL	Emergency battery output: 10 watts for 90 minutes. Maximum Mounting height: 14ft. Compatible with Signify Bodine sinusoidal output emergency lighting inverters. Signify Bodine inverters allow designated lighting fixtures to serve as code compliant emergency lighting sources during failure of normal AC power. For additional information see link: <a href="http://www.bodine.com/products/inverter.html">http://www.bodine.com/products/inverter.html</a>
			CERTIFICATION	CSA certified to CSA C22.2 No. 250.0, and conforms to UL standard 1598. PoE Compatible fixtures meet UL 2108.
DISTRIBUTION	Beam spreads from 30 degree narrow flood to 78 degree wide flood available, achieved with optics that are easily changed in the field.		CARE	The best way to remove airborne debris and dust from shades is to periodically vacuum. A Swiffer sheet or feathered duster can also be used for light dusting. To treat liquid stains, remove spills immediately with a clean damp cotton cloth or with detergent soap and warm water. Carpet and fabric cleaners can usually be used. Always test an inconspicuous area before applying cleaners to the actual stain.
LUMEN MAINTENANCE	Reported: L90: >55,000 hours	Calculated: L70: >180,000 hours L80: >120,000 hours <i>EPA TM21 calculator derived</i>	WARRANTY	5 year warranty on all standard components.
PHOTOMETRICS	Consult factory or website for IES files, tested in accordance with IESNA LM79			


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 Declare









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WITH GLOBAL AND  
DOMESTIC PRODUCTS

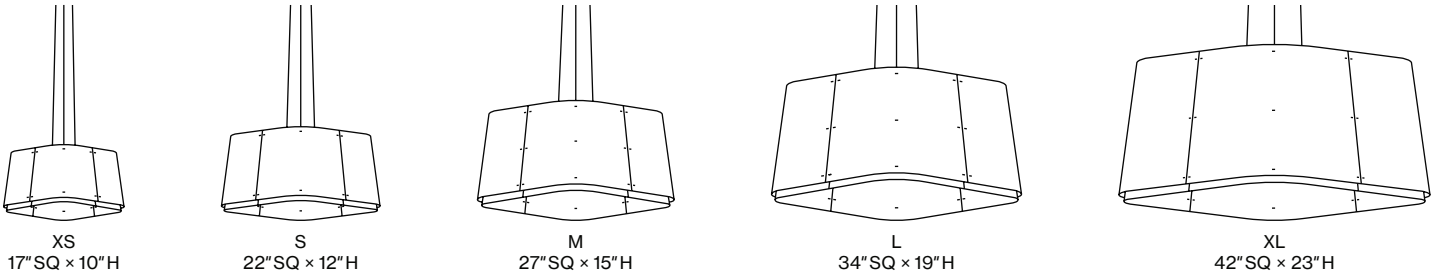


# Trapezoid Shade

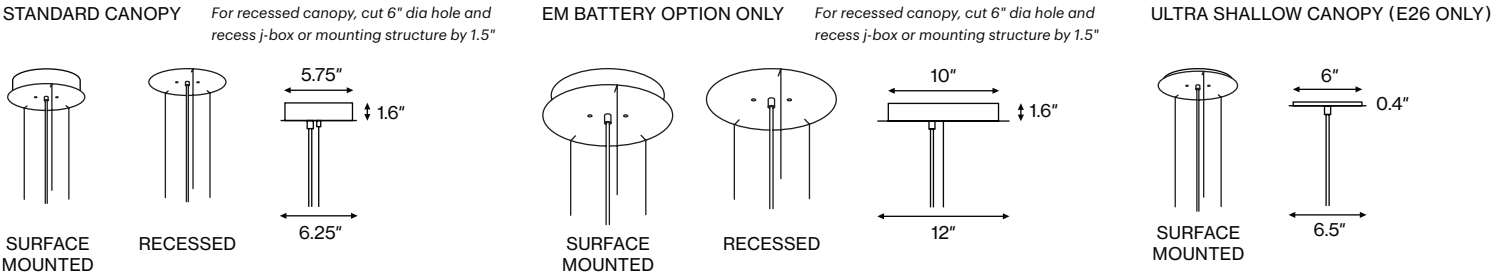
Fixture Options

ACOUSTIC COLLECTION

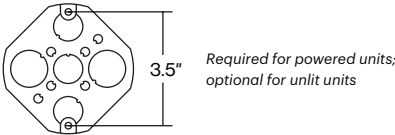
## DIMENSIONS



## CEILING CONNECTIONS



## 4" OCTAGONAL JUNCTION BOX (BY OTHERS)



## CANOPY / DRESS PLATE FINISH OPTIONS



## FELT COLOR & PATTERN OPTIONS

### COLOR OPTIONS



### PATTERN OPTIONS



# Trapezoid Shade

Acoustic Details

ACOUSTIC COLLECTION

SABINS PER FIXTURE Equivalent square feet of perfect absorption

CENTER FREQUENCY (HZ)	27 DIA 14 H TRAPEZOID (M)	34 DIA 19 H TRAPEZOID (L)
100	2.44	5.04
125	1.97	4.93
160	3.50	6.15
200	4.16	6.93
250	4.84	6.71
315	4.98	7.53
400	4.74	8.19
500	5.95	9.23
630	6.29	10.12
800	6.94	11.24
1000	7.69	12.00
1250	8.66	13.20
1600	9.36	14.73
2000	10.35	16.19
2500	11.26	17.38
3150	11.69	18.14
4000	12.35	18.84
5000	12.07	19.11
AVERAGE OF 250, 500, 1000, 2000	7.10	11.12
EQUIVALENT SQ FT OF ACT (NRC 0.90)	7.90	12.40
EQUIVALENT SQ FT OF ACT (NRC 0.70)	10.10	15.90

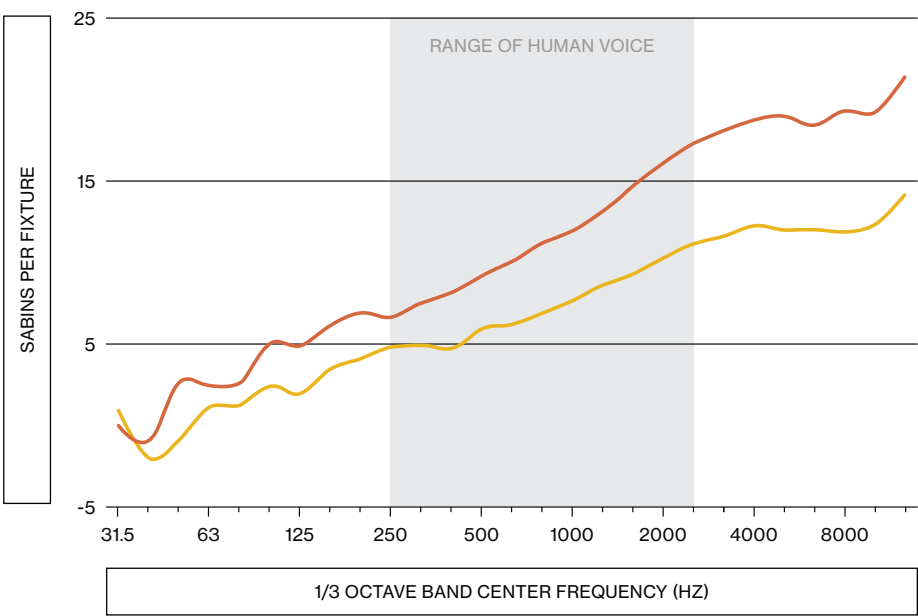
## Absorption

NRC per Fixture: 0.90  
Average of values taken at  
250, 500, 1000, and 2000 Hz

The NRC of felt depends on its configuration.  
LightArt fixtures utilize deep airspaces and  
multiple layers to keep NRC ratings high for all  
exposed felt surfaces.

The acoustic testing of Acoustic Shade was  
conducted at NVLAP accredited laboratories  
and meets ISO 354 and ASTM C423. Formal test  
reports are available upon request.

34 DIA 19 H TRAPEZOID (L)  
27 DIA 14 H TRAPEZOID (M)



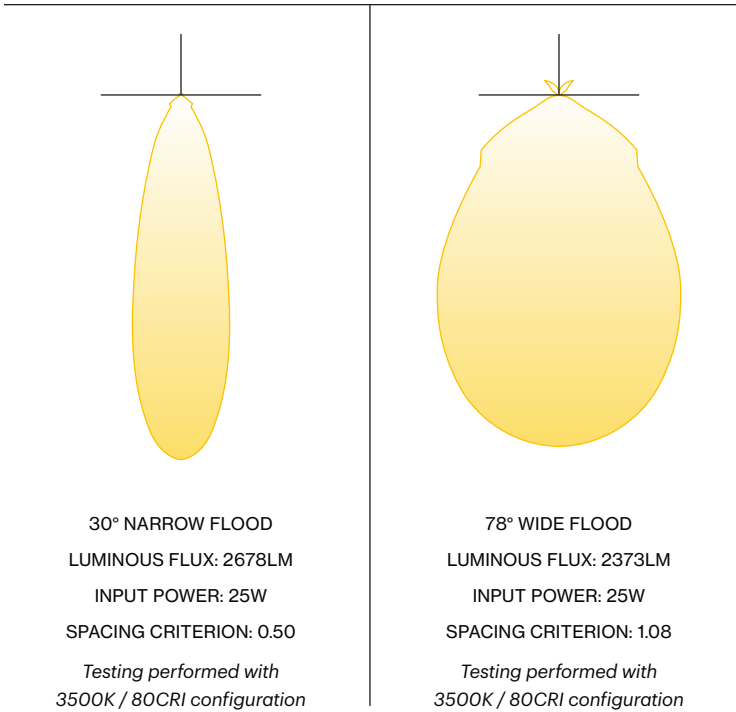
# Trapezoid Shade

Lighting Details

ACOUSTIC COLLECTION

## LIGHT DISTRIBUTION OPTIONS

Consult factory or lightart.com for IES files, tested in accordance with IESNA LM79



## PERFORMANCE

Based on 3500K / 80CRI / NFL / M Size configuration (HP light core) and 300 for E26 lamp

NOMINAL LUMEN OUTPUT	DELIVERED LUMENS	INPUT POWER (W)	EFFICACY (LM/W)	POE COMPATIBILITY	OUTPUT / LED DRAW WATTAGE (FOR USE W/ POE)
415 (E26 XS, S)	415	7.0	59	N/A	N/A
780 (E26 M, L, XL)	788	12.0	66	N/A	N/A
700	718	7.3	99	POE & POE+	7.3
800	839	8.8	95	POE & POE+	8.8
900	959	9.4	91	POE & POE+	11.5
1000	1003	8.4	119	POE & POE+	7.2
1600	1650	14.6	113	POE & POE+	12.4
2100	2159	19.6	110	POE+ ONLY	16.7
2600	2678	25.0	107	POE+ ONLY	21.4

## OPTICAL CHARACTERISTICS

Based on measurement data

	BEAM ANGLE	SPACING CRITERION
NARROW FLOOD	30°	0.50
FLOOD	54°	0.79
WIDE FLOOD	78°	1.08

## OUTPUT MULTIPLIERS

Based on measurement data

COLOR TEMPERATURE / CRI	MULTIPLIER
2700K / 80	0.93
2700K / 90	0.78
3000K / 80	0.97
3000K / 90	0.81
3500K / 80	1.00
3500K / 90	0.83
4000K / 80	1.01
4000K / 90	0.86
WARM DIM 1830 / 90	0.72

OPTIC	MULTIPLIER
30°	1.00
54°	0.94
78°	0.89

## OUTPUT MULTIPLIERS INSTRUCTIONS

Adjusted Value =  $L_1 \times C_m \times O_m$  where:

$L_1$  = (Lumen output at 3500K / 80 CRI) ×

$C_m$  = (Color Temp. / CRI Multiplier) ×

$O_m$  = (Optic Multiplier)

Example:

850LM / 3000K / 80CRI / FL Configuration

$(850) \times (0.97) \times (0.92) = 2206LM$

# Trapezoid Shade

Part Number Specification

ACOUSTIC COLLECTION

SPECIFICATION CODE

Example: 2 QTY ACC-SHPE-TRAP-22SQ-CT-ZN2-STD-BPC-BK-BPF-835CK-800LM-FL-LT02

QTY.

ACC-SHPE-TRAP-

1

2

3

4

5

6

7

8

9

10

11

Complete form to order Trapezoid Shade fixture(s). For each number, make one selection and enter in the corresponding box above.  
\*Indicates modified choices; additional lead times and/or costs may apply.

1 SIZE Nominal

☐ 17SQ

17" SQUARE

☐ 22SQ

22" SQUARE

☐ 27SQ

27" SQUARE

☐ 34SQ

34" SQUARE

☐ 42SQ

42" SQUARE

2 OUTER FELT COLOR

COLOR OPTIONS

☐ EB

EBONY

☐ NF

NIGHTFALL

☐ CA

CAST

☐ SLT

SILT

☐ ML

MINERAL

☐ STL

STEEL

☐ AR

ARMOR

☐ NI

NICKEL

☐ ZN

ZINC

☐ EM

EMERALD

☐ BU

BURGUNDY

☐ CI

CINNAMON

☐ JP

JASPER

☐ SF

SAFFRON

☐ OCH

OCHRE

☐ MU

MUSTARD

☐ AS

ARIES

☐ CT

CITRINE

☐ LC

LILAC

☐ AD

ADMIRAL

☐ DK

DUSK

☐ STB

STEELBLUE

☐ PT

PLATINUM

☐ DW

DRIFTWOOD

☐ DN

DUNE

☐ VL

VANILLA

PATTERN OPTIONS

☐ DWA

WALNUT

☐ IOK

IRON OAK

☐ WA

CARMEL OAK

☐ BA

RICH BAMBOO

3 INNER FELT COLOR

COLOR OPTIONS

☐ EB

EBONY

☐ NF

NIGHTFALL

☐ CA

CAST

☐ SLT

SILT

☐ ML

MINERAL

☐ STL

STEEL

☐ AR

ARMOR

☐ NI

NICKEL

☐ ZN

ZINC

☐ EM

EMERALD

☐ BU

BURGUNDY

☐ CI

CINNAMON

☐ JP

JASPER

☐ SF

SAFFRON

☐ OCH

OCHRE

☐ MU

MUSTARD

☐ AS

ARIES

☐ CT

CITRINE

☐ LC

LILAC

☐ AD

ADMIRAL

☐ DK

DUSK

☐ STB

STEELBLUE

☐ PT

PLATINUM

☐ DW

DRIFTWOOD

☐ DN

DUNE

☐ VL

VANILLA

PATTERN OPTIONS

☐ DWA

WALNUT

☐ IOK

IRON OAK

☐ WA

CARMEL OAK

☐ BA

RICH BAMBOO

4 SUSPENSION

☐ STD

12" - 96"

☐ EXT\*

24" - 240"

5 CANOPY OPTIONS

☐ WPC

WHITE

☐ BPC

BLACK

☐ RWPC

RECESSED WHITE

☐ RBPC

RECESSED BLACK

6 POWER CORD

☐ WH

WHITE

☐ BK

BLACK

Cord finish will match canopy,  
unless otherwise specified

7 FRAME COLOR

☐ WPF

WHITE

☐ BPF

BLACK

CONTINUE TO NEXT PAGE TO COMPLETE SPECIFICATION

\*Indicates modified choices; additional lead times and/or costs may apply.



# Trapezoid Shade

## Part Number Specification

ACOUSTIC COLLECTION

CONTINUE SPECIFICATION

### 8 LED CRI/CCT

<input type="checkbox"/> 827CK	80 CRI / 2700K	<input type="checkbox"/> 927CK	90 CRI / 2700K	<input type="checkbox"/> E26GL	E26 BASE GLOBAL LAMP
<input type="checkbox"/> 830CK	80 CRI / 3000K	<input type="checkbox"/> 930CK	90 CRI / 3000K		
<input type="checkbox"/> 835CK	80 CRI / 3500K	<input type="checkbox"/> 935CK	90 CRI / 3500K		
<input type="checkbox"/> 840CK	80 CRI / 4000K	<input type="checkbox"/> 1830W	WARM DIMMING 90 CRI 3000K to 1800K Dimming Range		

### 9 NOMINAL DELIVERED LUMENS

ONLY AVAILABLE IN SIZES XS, S  
Warm Dim only available in 700LM

<input type="checkbox"/> 700LM	700 LUMEN
<input type="checkbox"/> 800LM	800 LUMEN
<input type="checkbox"/> 900LM	900 LUMEN

ONLY AVAILABLE IN SIZES M, L, XL  
Warm Dim only available in 1600LM

<input type="checkbox"/> 1000LM	1000 LUMEN
<input type="checkbox"/> 1600LM	1600 LUMEN
<input type="checkbox"/> 2100LM	2100 LUMEN
<input type="checkbox"/> 2600LM	2600 LUMEN

AVAILABLE IN ALL SIZES

XS, S: 415LM delivered 3000K >90 CRI, 120V only  
M, L, XL: 788LM delivered 3000K >80 CRI, 120V only

<input type="checkbox"/> E26LM	E26 BASE GLOBAL LAMP LUMENS
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### 10 BEAM SPREAD Beam spread kits available—contact LightArt for more information

<input type="checkbox"/> NFL	NARROW FLOOD OPTION (21°)
<input type="checkbox"/> FL	FLOOD OPTION (39°)
<input type="checkbox"/> WFL	WIDE FLOOD OPTION (69°)
<input type="checkbox"/> E26S	E26 BASE A LAMP

### 11 DIMMING AND CONTROLS

<input type="checkbox"/> LV01	0-10V – 1% DIMMING 120 & 277V
<input type="checkbox"/> LT02	LEADING/TRAILING/TRIAC – 5% DIMMING 120v only
<input type="checkbox"/> LP01	ELV FORWARD/REVERSE PHASE – 1% DIMMING 120v only
<input type="checkbox"/> LVP	LOW VOLTAGE POE No driver provided for POE. Power supply by others. Not available with E26 Base A lamp.
<input type="checkbox"/> EBM	0-10V 1% DIMMING INTEGRATED EM BATTERY OPTION Max Lumen output limited—consult LightArt. Not available for E26.  Universal Input (Dim on 120V for TRIAC/ELV & 120/277V for 0–10V)
<input type="checkbox"/> E26	E26 BASE A LAMP Only compatible with 120V ELV Dimming

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